

# **EXHIBIT 602**

Richard T. Mason, MD

IN THE UNITED STATES DISTRICT COURT  
FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA  
CHARLESTON DIVISION

KATHY McCORNACK, an individual; )  
DANIEL E. McCORNACK, JR., an )  
individual; and RALPH J. )  
McCORNACK, a minor by and )  
through his Guardian ad Litem, )  
Plaintiffs, )  
vs. ) MDL No. 2:09-CV-0671  
ACTAVIS TOTOWA, LLC, et al., )  
Defendants. )  
-----)

DEPOSITION OF RICHARD T. MASON, MD

DATE: Thursday, October 1, 2009

TIME: 2:00 p.m.

PLACE: Atlantic Aviation  
1250 Aviation Avenue  
San Jose, California 95110

REPORTER: ALLISON ASH-HOYMAN  
Certified Shorthand Reporter  
License No. 7412

Richard T. Mason, MD

A P P E A R A N C E S

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Defendants: TUCKER, ELLIS & WEST  
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19 1 Death Investigation Report 5

20 2 Report of Autopsy Examination 5

21 3 One-page Certificate of Death 5

22 4 Two-page Certificate of Death 5

23 5 Report of Autopsy Examination 5

24 6 Curriculum Vitae 7

25 7 Coroner's File re McCornack 15

26 8 Medical Examiner/Coroner Requisition Form, 26  
also part of Exhibit 727 9 Excerpt from Disposition of Toxic Drugs 50  
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10	Excerpt from Unit IV/Maintenance of the Human Body	50
11	Excerpt from Heart Disease, A Textbook of Cardiovascular Medicine	50
12	Excerpt from Medical Treatment of Heart Disease	50
13	Excerpt from Environmental and Occupational Hazards	50
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1 (Marked Deposition Exhibits 1 through 5.)

2 RICHARD T. MASON, MD,  
3 having been first duly sworn by the Certified  
4 Shorthand Reporter to tell the truth and nothing  
5 but the truth, was examined and testified as  
6 follows:

7 EXAMINATION BY MR. MORIARTY

8 Q. State your full name for the record, please.

9 A. Richard Thomas Mason, MD.

10 Q. Dr. Mason, you have given testimony in trials  
11 before; is that correct?

12 A. Many times.

13 Q. And have you given depositions in civil  
14 litigation?

15 A. Yes.

16 Q. Do you know how many times you have done that?

17 A. Several hundred.

18 Q. Okay. And as you know, I'm going to be asking  
19 you questions, there is a court reporter here.

20 You understand that; correct?

21 A. Yes.

22 Q. And if you don't understand my question, for  
23 whatever reason, you just let me know and I will  
24 rephrase it; okay?

25 A. Yes.

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1 Q. If you need to take a break, just let us know  
2 and we can do that, too; okay?

3 A. Okay.

4 Q. I assume that you have testified so many times  
5 because you have for many years been the coroner of  
6 Santa Cruz County; correct?

7 A. Yes. It's about 29 years now. But that's the  
8 routine in forensic medicine, forensic pathology, you do  
9 autopsies and you do courtroom testimony.

10 Q. Correct.

11 A. Part and parcel.

12 Q. I understand. What -- I want to show you what  
13 I've had marked as Exhibit --

14 Mark that as 6, please, let me withdraw that  
15 previous question.

16 MR. ERNST: Before we go forward I would  
17 really, just as a point of clarification.

18 I'm Don Ernst, I represent the Plaintiff Kathy  
19 McCornack. Can I have the respective representations so  
20 I know who is who.

21 MR. MORIARTY: As you know, I'm Matthew  
22 Moriarty, not Alicia Donahue, and I represent the  
23 Actavis defendants.

24 MS. DONAHUE: My name is Alicia Donahue from  
25 Shook, Hardy and Bacon, and I represent the Mylan

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1 defendants.

2 THE WITNESS: Can I interject a little bit in  
3 here? My hearing, I'm 73 years old, my hearing is not  
4 that great. I notice you have a very soft voice. When  
5 you speak, look at me and speak up.

6 MS. DONAHUE: Will do.

7 THE WITNESS: Thank you.

8 (Marked Deposition Exhibit 6.)

9 BY MR. MORIARTY:

10 Q. Exhibit 6, is this your curriculum vitae?

11 A. It is.

12 Q. Is it current?

13 A. Yes, it is. Maybe a few more autopsies in it,  
14 but, you know, it's closer to 10,000 autopsies now.

15 MR. MORIARTY: Here is an extra copy stuck  
16 under there.

17 Q. Have you published any articles in the medical  
18 literature besides the three that are listed here?

19 A. No.

20 Q. Have you ever published anything about  
21 post-mortem redistribution?

22 A. No.

23 Q. Have you ever published anything about digoxin  
24 or digoxin toxicity?

25 A. No.



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1 Q. Do you have any estimate of the number of times  
2 in your career in which you have been asked to render  
3 opinions about whether digoxin was a cause of someone's  
4 death?

5 A. No, I don't. They are not that common, I don't  
6 recall any other cases that I've done.

7 Q. All right. So you may have never been called  
8 upon to do that?

9 A. We normally do toxicology on all the cases. If  
10 we think digoxin is a factor, we'll ask for analysis of  
11 it. But I don't recall an issue where it was the  
12 subject of litigation.

13 Q. Okay. Can you recall an issue when it was a  
14 cause of death?

15 A. No.

16 Q. This is Exhibit 1. Have you ever seen this  
17 before?

18 A. Yes. This is our investigation report executed  
19 by the -- one of the three deputy sheriffs that are  
20 assigned to the coroner's service, that's by Naomi  
21 Silva.

22 Q. Do you know Naomi Silva?

23 A. Yes, I do.

24 Q. Is she a physician?

25 A. No, no, no. She is a deputy sheriff. A cop.

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1 Q. All right. And this is just the three-page  
2 report of the call they received and the investigation  
3 that they did on the scene; correct?

4 A. Correct.

5 Q. All right. And what is the relationship  
6 between your office and the office of the sheriff?

7 A. The sheriff is the coroner.

8 Q. Okay. So are you the sheriff?

9 A. No, I'm not the sheriff. I'm sort of the de  
10 facto coroner, actually I'm a private contractor.

11 Q. All right. So who is the sheriff?

12 A. Phil Wowak is the sheriff now. He is a -- he  
13 was a lieutenant recently.

14 The coroner's service is in the criminal  
15 investigation bureau of the Santa Cruz County Sheriff's  
16 Department. And he was in charge of the investigation  
17 bureau, and the prior sheriff just retired and he was  
18 appointed, Lieutenant Wowak was appointed, so he is now  
19 the sheriff. He is the boss of the whole operation.

20 Q. Who carries the title of coroner in Santa Cruz  
21 County?

22 A. Well, the sheriff does.

23 Q. Okay.

24 A. I might add something here. Of the 58 counties  
25 in the State of California, the majority of them are

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1 sheriff coroner. So the title and the authority of the  
2 coroner resides with the sheriff.

3 Q. All right.

4 A. And there is maybe about five jurisdictions,  
5 like Los Angeles, San Francisco, and Ventura County  
6 where there is some other arrangement.

7 Q. Okay. So you said you are a contract, or  
8 contractor employee?

9 A. Yes.

10 Q. What does that actually mean?

11 A. Well, it means that they don't have to provide  
12 any benefits, medical assistance or anything like that.  
13 Just take your chances, you collect your money.

14 Q. Okay.

15 A. That's the way it works.

16 Q. All right. Are you still employed full time or  
17 contracted full time?

18 A. Yes, I have been for, it's going on 30 years  
19 now I've worked for them exclusively. They represent  
20 maybe 90 percent of my time. Because of our contractual  
21 arrangement, I'm free to do other work. But from a  
22 practical point of view, it's a full-time job.

23 Q. All right. Can you tell, because of your  
24 familiarity with these kinds of reports, when this  
25 report, Exhibit 1, was finalized?

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1           A. Well, it would have to be generated, you know,  
2 at or about the time we received the body. Because, you  
3 know, I'm going to be dependent on this report for the  
4 direction of my autopsy investigation.

5           Q. Okay.

6           A. So usually that report is in my hands before I  
7 do the autopsy.

8           Q. All right. This is Exhibit 2. This is the  
9 autopsy of yours that I had in my briefcase when I flew  
10 to California yesterday.

11                   Can you please tell me what the date of that  
12 autopsy report is?

13           A. Well, the date of the autopsy is March 26,  
14 2008, at 7:30 a.m. That's the commencing time.

15           Q. What's the date of the report?

16           A. The date of the report is the same.

17           Q. So you were able to perform the autopsy in one  
18 day; correct?

19           A. Yes.

20           Q. And you dictate your notes contemporaneous with  
21 either the performance of the autopsy or upon conclusion  
22 of the autopsy; correct?

23           A. Usually in two parts. I'll dictate the  
24 external examination of the body, then do the dissection  
25 and then dictate the dissection immediately after.

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1 Q. So would it be fair for me to say that in the  
2 normal course of your business with the coroner's  
3 office, that this report, Exhibit 2, would have been  
4 typed and available within several days of the  
5 performance of the autopsy?

6 A. Yeah. I just use a hand machine and a  
7 conventional standard-sized tape cassette and it goes to  
8 a transcriptionist.

9 Q. Okay. And did you do any microscopic analysis  
10 of any of the specimens available to you from the  
11 McCornack autopsy?

12 A. No. It can still be done because the tissue is  
13 in storage, but I have not done so.

14 Q. Was there any particular reason why you did not  
15 do any microscopic analysis at the time you did the  
16 autopsy?

17 A. You know, there is a pressure to get the  
18 reports out, get the cases done. If you did -- I do  
19 about 150 autopsies, if you did histologic examinations  
20 on all of those, the cost and the time would be  
21 significant.

22 So we normally sign out on the basis of gross  
23 examination.

24 Q. Okay.

25 A. And then follow up with toxicology. If

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1 toxicology comes back, something aberrant, and end up  
2 changing the diagnosis, or if it's obvious at the outset  
3 that it's some kind of suicidal ingestion of drugs or  
4 whatever, then the cause of death is pended awaiting the  
5 toxicology results.

6 Q. When you did the autopsy, and before you  
7 dictated the report, did you have the medications that  
8 he was on available to you, or a list of them?

9 A. I believe that I did, yes.

10 Q. Do you have an actual autopsy file on this  
11 case?

12 A. Yes.

13 Q. Is it here?

14 A. Yes.

15 Q. May I see it, please?

16 A. (Handing document to counsel.)

17 Q. Is this an extra copy?

18 A. Well, that is not the original -- those are  
19 copies of the sheriff's file.

20 I know in your subpoena you asked to have the  
21 original file. I can't do that because it belongs to  
22 the sheriff. So those are the significant documents in  
23 the sheriff's file that I have copied, so those are  
24 copies.

25 MR. MORIARTY: All right. I will mark this as

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1 Exhibit 7 in just a second, but while I've got these  
2 pages open --

3 MR. ERNST: What are you calling Exhibit 7?

4 MR. MORIARTY: It's the file that he produced  
5 in response to my subpoena for the -- I call it the  
6 autopsy file.

7 Q. What do you call it?

8 A. I call it the coroner's file. It's a coroner's  
9 file, really.

10 Q. Okay. There are some medical records in here  
11 from Dr. Lemm's office that appear to have been faxed  
12 March 24, 2008.

13 Did you have these available to you at the time  
14 you performed the autopsy or when you dictated the  
15 autopsy report?

16 A. I believe so.

17 Q. Did you review these records before you  
18 dictated the autopsy report that is Exhibit 2?

19 A. I usually review any available medical records  
20 before the autopsy. One of the functions of the  
21 investigators is to gather medical records.

22 Q. Sure. So you would have had some idea, based  
23 on these records, what his medications were, including  
24 Diltiazem, A digoxin product, Allopurinol, et cetera;  
25 correct?

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1 A. Yes.

2 Q. Do you know who initiated the process of  
3 getting Dr. Lemm's records sent to the coroner's office?

4 A. The investigators would have done that.

5 Q. And is that common practice?

6 A. It's a standard operating procedure, yes, to  
7 find out who the decedent's physicians are and to obtain  
8 copies of their records.

9 Q. All right. And so also in here faxed the same  
10 day it appears are records, some records at least, from  
11 Coastal Cardiology.

12 Do you believe you had those available to you  
13 at the time you did the autopsy and the report?

14 A. Yes.

15 MR. MORIARTY: Could you mark this, please.

16 (Marked Deposition Exhibit 7.)

17 BY MR. MORIARTY:

18 Q. Getting back to Exhibit 2, on the first page  
19 there is a section that says Cause of Death.

20 Do you see this?

21 A. Yes.

22 Q. Is this, at least at the time you dictate it,  
23 your opinion to a probability as to what the cause of  
24 death is?

25 A. Yes.



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1 Q. So in this case, at the time you dictated it  
2 back in March of 2008, the causes were ventricular  
3 arrhythmia; is that correct?

4 A. Yes.

5 Q. Atrial fibrillation -- well, due to atrial  
6 fibrillation; correct?

7 Due to hypertensive and arteriosclerotic  
8 cardiovascular disease.

9 Did I read those correctly?

10 A. Yes.

11 Q. What, if you recall, was the basis for your  
12 opinion that this was a ventricular arrhythmia?

13 A. Well, obviously I can't see arrhythmias with a  
14 dissecting knife. In a normal course of a demise due to  
15 cardiovascular disease, that's what happens. You get  
16 ventricular arrhythmia that is -- could be detected by  
17 electrocardiographic means.

18 You know, at the point that I'm looking at the  
19 patient, he is dead. So I am physically looking at his  
20 heart, at his heart muscle, I'm looking at his coronary  
21 arteries, and I see that he has cerebral edema and  
22 pulmonary edema, which are sort of the end points of  
23 acute heart failure, and I see that he has an enlarged,  
24 heavy heart.

25 He has a cardiomegaly, his heart weighs 500

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1 grams, and there is -- there is some arteriosclerotic  
2 plaque in his coronary arteries, and essentially, you  
3 know, there is no way of knowing for a certainty unless  
4 of course you had the patient hooked up to an EKG at the  
5 time that he died. But this is by inference, I find no  
6 other major illnesses or signs of illness in the  
7 dissection of all of his internal organs, including  
8 brain and all of the chest and all the abdominal organs,  
9 so that's the conclusion you come to based on the  
10 pathology that you see.

11 Q. To some extent it's a diagnosis of exclusion.

12 A. Yeah. Sure.

13 Q. All right. Then Exhibit 3 was a death  
14 certificate; correct?

15 A. Correct.

16 Q. And it's not a very good copy, but showing you  
17 a page in Exhibit 7, does what you are holding in your  
18 hand as Exhibit 3 appear to mirror the contents of what  
19 was the death certificate here that's in Exhibit 7?

20 A. Yes.

21 Q. All right. And the causes of death in the  
22 death certificate are essentially the same as those in  
23 the original autopsy report, which is Exhibit 2;  
24 correct?

25 A. Correct.

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1 Q. Now, these recent changed certificates of death  
2 and autopsy reports, Exhibits 4 and 5, are they in  
3 Exhibit 7, which is the coroner's file?

4 A. They are now.

5 Q. Well, the Exhibit 7 that I have does not  
6 contain them; is that true?

7 A. No. But they are in the coroner's file at the  
8 present time. This is an earlier copy of the coroner's  
9 file, so they are not there.

10 Q. When were the Exhibits 4 and 5 reports added to  
11 the coroner's file?

12 A. Yesterday.

13 Q. When was Exhibit 4 prepared?

14 A. It was prepared at the conclusion of the  
15 autopsy. Probably on the same day that the autopsy was  
16 concluded.

17 Q. You are talking about the new autopsy report?

18 A. You are asking when Exhibit 4 was prepared.

19 Q. Yes, that's a new death certificate. It has  
20 different causes of death than those listed in the  
21 original death certificate, which is Exhibit 3.

22 A. No, no. This is a copy of the old death  
23 certificate. It's the way -- and on the second page is  
24 a copy of the amendments to the death certificate. That  
25 was prepared yesterday.

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1 Q. Okay.

2 A. On the first page is the --

3 Q. I got it.

4 A. -- original death certificate.

5 Q. So just for clarity of the record, Exhibit 4 is  
6 a two-page exhibit; correct?

7 A. It is, yes.

8 Q. So the first page of Exhibit 4 is essentially  
9 the same as Exhibit 3; correct?

10 A. Yes.

11 Q. The second page of Exhibit 4 is an amendment,  
12 as you call it; correct?

13 A. Correct.

14 Q. When was it prepared?

15 A. Yesterday.

16 Q. Exhibit 5 is an autopsy report with new  
17 conclusions on the first page.

18 Do you agree with me?

19 A. Yes.

20 Q. When was it prepared?

21 A. Yesterday.

22 Q. Please, at any time in answering my questions  
23 you are more than welcome to refer to any of these;  
24 okay?

25 A. Yes.

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1 Q. My memory of the investigation reports is that  
2 Mr. McCornack was pronounced dead at 12:52 a.m. on March  
3 23rd, 2007; is that correct?

4 A. Yes.

5 MR. ERNST: I don't believe that's correct. I  
6 believe you misstated the year.

7 MR. MORIARTY: I'm sorry.

8 THE WITNESS: '09?

9 MR. MORIARTY: '08.

10 MR. ERNST: Oh, I'm sorry. '08. I think we  
11 have got three different dates here, and all of us --

12 MR. MORIARTY: I'm good at fixing my own  
13 mistakes.

14 MR. ERNST: Fine.

15 BY MR. MORIARTY:

16 Q. But Mr. Ernst is correct, I made a mistake.

17 According to the materials, Mr. McCornack was  
18 pronounced dead at 12:52 a.m. March 23rd, 2008; am I  
19 correct?

20 A. Yes.

21 Q. And that is reflected in Exhibit 1, the Summary  
22 of Investigation by the sheriff's office; correct?

23 A. Correct.

24 Q. And as far as I can tell from Exhibit 2, the  
25 original autopsy report, this autopsy was started on

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1 March 26th at 7:30 a.m.; is that correct?

2 A. Correct.

3 Q. Some 78 to 79 hours post pronouncement of  
4 death; correct?

5 A. Correct.

6 Q. During the autopsy on March 26, 2008, according  
7 to Exhibit 2 -- let me withdraw that. I have to find  
8 what I'm looking for.

9 A. Perhaps I could help you.

10 MR. ERNST: Are you looking for something? I  
11 will help you, if you wish.

12 MR. MORIARTY: I'll find it or die trying.

13 THE WITNESS: That's what I like about old  
14 farts, they never give up.

15 MR. MORIARTY: Takes one to know one.

16 THE WITNESS: Exactly.

17 MR. ERNST: Eureka.

18 Can you go to where you are referring to?

19 MR. MORIARTY: Yes.

20 Q. Exhibit 1, the sheriff's report.

21 First of all, it says here on the third page --  
22 sorry, second page, I'm having a lot of trouble with my  
23 math today.

24 Let me withdraw my question and start over;  
25 okay?

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1 I'd like you to look at Exhibit 1; okay? It's  
2 the sheriff's investigation report. Do you have it  
3 there?

4 A. Yes.

5 Q. All right. On the second page, the last  
6 paragraph, it begins Dr. Richard T. Mason, a forensic  
7 pathologist, performed an autopsy on March 26, 2008 at  
8 approximately 7:30 a.m.; correct?

9 A. Correct.

10 Q. Now, did you have a discussion with Naomi Silva  
11 or some other investigator about your autopsy findings  
12 after you were done?

13 A. Normally we have got a half-page form that  
14 contains the lines and the arrangement for the  
15 investigator. Again in a sheriff coroner service, they  
16 don't want a physician signing the death certificate.  
17 This usurps their authority. The death certificates are  
18 signed by direct police officers, sheriff's deputies,  
19 who are under the command of the sheriff, who is the  
20 coroner.

21 So I fill out this form and represent to them  
22 what should be put on the death certificate, and that's  
23 what I do. It's about a half-page form and it shows the  
24 lines. And I fill out what I want to see on the death  
25 certificate. And that's the way it's done.

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1 Q. I presume you followed your practice in this  
2 instance?

3 A. I did.

4 Q. Do you know whether you also had a discussion  
5 with the investigator?

6 A. No, I don't recall there was any discussion  
7 with the investigator.

8 Q. Would you typically have one?

9 A. You know, if there was other ancillary  
10 investigative, you know, investigative findings, or if  
11 it was something to do with police activity, they were  
12 going to arrest somebody or weapons or something of  
13 that, I normally would. But on a natural -- what was  
14 apparently a natural death with medical causes, I  
15 probably wouldn't.

16 Q. Okay. It also says here, beginning at the  
17 middle of the fourth line, "during the examination, Dr.  
18 Mason collected post-mortem cardiac blood, urine and  
19 liver tissue specimens for toxicological testing at the  
20 National Medical Services Laboratory."

21 Do you see that statement?

22 A. I do. It's incorrect.

23 Q. What would be the basis for this investigator  
24 writing that in his or her report?

25 A. She is making an assumption. She didn't ask



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1 me.

2 Q. What -- how do you label the specimens once you  
3 have drawn them?

4 A. Well, there is essentially a test tube rack,  
5 and so I'm collecting -- in virtually every case I  
6 collect blood, urine, liver tissue. And at the  
7 conclusion of the autopsy I fill out the requisition  
8 form and I mark the source of the blood.

9 Q. Is that requisition form in Exhibit 7?

10 A. Yes, I think it is. I saw it in there.

11 Q. Can you find it for me, please.

12 A. Okay. This is a copy of a National Medical  
13 Services form which they give to us. It's a multi-page  
14 carbon copy form, and on that form I check the source of  
15 the blood, as to whether it's cardiac or peripheral.

16 Q. Okay.

17 A. And then in that particular case I checked  
18 peripheral, so that's what it is. And normally the  
19 collection -- post-mortem blood clots, first off, and  
20 then it re-liquefies.

21 So my usual source of peripheral blood are the  
22 axillary veins, you know, I'm taking a five-inch  
23 skinning knife and I'm essentially removing all soft  
24 tissue from the chest going down into the axillary area,  
25 and I deliberately cut across the axillary vein, and

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1 just pick the blood up in a measuring cup as it flows  
2 from that vessel.

3 And then I put it in the containers myself and  
4 make sure it gets mixed with the anti-coagulant myself.  
5 Then I just put it in my test tube rack and I label them  
6 at the conclusion of the autopsy.

7 Q. Okay?

8 MR. ERNST: Before we go any further, there was  
9 a form that was used that was in Exhibit 7. I would  
10 like that marked, identified, so that we can  
11 specifically refer to it later. And if you want to mark  
12 it --

13 MR. MORIARTY: It won't be hard for him to find  
14 it later.

15 MR. ERNST: No, I want it marked now so --

16 MR. MORIARTY: You got a Post-It note?

17 MR. ERNST: I don't, but I'm sure the court  
18 reporter does.

19 MR. MORIARTY: Do you have a Post-It note?

20 THE REPORTER: No.

21 MR. ERNST: Well, let's use one of those, mark  
22 it 7 sub A, if you wish.

23 MR. MORIARTY: We can mark it as an exhibit  
24 later, I don't want to stop.

25 MR. ERNST: Why don't we just mark it next in

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1 order and reflect it as contained in Exhibit 7. I think  
2 that would be the most appropriate thing to do.

3 THE WITNESS: Some Post-It notes, fluorescent  
4 ones.

5 MR. MORIARTY: Perfect.

6 THE WITNESS: It's smaller.

7 MR. MORIARTY: I am flagging with a Post-It  
8 note the requisition form that Mr. Ernst is referring to  
9 and we will later mark this as a separate Exhibit 7A.

10 MR. ERNST: You want to mark it 7A, or next in  
11 order and reflect that it's contained in 7?

12 MR. MORIARTY: Okay, we will mark it No. 8  
13 later and get a separate copy of it.

14 MR. ERNST: Just so the record is clear,  
15 Exhibit 8 is the requisition form -- what did you call  
16 it?

17 THE WITNESS: It's the National Medical  
18 Services form which they provide us.

19 MR. MORIARTY: You don't have to take that  
20 apart, Doctor. We will mark it later.

21 MR. ERNST: Thank you.

22 (Marked Deposition Exhibit 8.)

23 BY MR. MORIARTY:

24 Q. Now, do you ligate any section of that vessel  
25 before you do the specimen draw for the blood?

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1 A. No.

2 Q. Your routine, when you say it's peripheral, is  
3 to draw from an axillary vein; correct?

4 A. Yeah. Normally you grab the arm by the wrist  
5 and run your hand down the arm, squeeze that juice out  
6 of there. It doesn't -- sometimes it doesn't flow quite  
7 readily and you get a big puddle of it in the axilla and  
8 pick it up.

9 Q. So that many hours after death, what is the  
10 relative quality of an axillary specimen of blood versus  
11 a cardiac specimen of blood?

12 A. Well, what do you mean by "quality"? Do you  
13 want to transfuse it or drink it or what? We  
14 refrigerate our bodies so they don't go bad. You know.  
15 Just like any sort of meat.

16 And you -- after you have done this work for  
17 about 40 years you can tell the quality of the remains,  
18 whether there is any decomposition change or not. And  
19 our refrigerators are the same temperature as your home  
20 refrigerators, it's about 40 degrees Fahrenheit.

21 Q. So I take it you believe that the quality of  
22 the specimen for purposes of a forensic analysis between  
23 a heart and an axillary vein is comparable; is that what  
24 you are telling me?

25 A. Yeah. In fact if you talk to the

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1 toxicologists, they prefer peripheral blood, if you can  
2 get it. Sometimes you can't, in which case you use the  
3 heart blood, mostly from the venous side, but the  
4 toxicologists prefer the peripheral blood as a more  
5 representative sample.

6 Q. Okay. Who chose National Medical Services lab?

7 A. Fate. They are virtually the only halfway  
8 decent lab in existence that does coroner's toxicology.  
9 We had a very good lab in Northern California associated  
10 with a private group that did The Alameda County  
11 coroner's work and they went out of business. And I  
12 think there is one other lab in Northern California.

13 This laboratory has a pretty heavyweight  
14 reputation and they are noted to do good work in  
15 forensic analysis. So we use them.

16 Q. Have you ever talked to anyone at NMS labs  
17 about anything about the McCornack case or the McCornack  
18 specimens?

19 A. No, I haven't.

20 Q. Now, the Exhibit 7 contains -- somewhere in  
21 here -- Exhibit 7 contains a June 24, 2008 report from  
22 NMS labs, does it not?

23 A. It does, yeah.

24 Q. And this particular report is three pages long;  
25 correct?

Richard T. Mason, MD

1 A. Correct.

2 Q. And this report June 24, 2008, contains the 3.6  
3 nanograms per milliliter digoxin post-mortem blood  
4 result, does it not?

5 A. It does.

6 Q. When was the first time you ever looked at this  
7 June 24, 2008 NMS lab report?

8 A. That's a very good question. I don't remember.  
9 Someone called it to my attention.

10 Q. But certainly you never changed the death  
11 certificate or the autopsy report or made any amendments  
12 to it before yesterday; correct?

13 A. Correct.

14 Q. Do you know whether there is a signed version  
15 of exhibit --

16 We are missing an exhibit here, I think you  
17 have it, Tom.

18 MR. ERNST: No. This one is mine. It's my  
19 copy of Exhibit 1.

20 MR. MORIARTY: The death certificate is  
21 missing.

22 I'm going to blame you for everything today and  
23 it's going to be my mistake every time.

24 MR. ERNST: The record should reflect the death  
25 certificate was under Mr. Moriarty's left elbow.

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1 MR. MORIARTY: And it's not even Exhibit 1,  
2 it's Exhibit 3.

3 Q. Do you know if there is a signed version of  
4 Exhibit 3?

5 A. There should be. Obviously it requires a  
6 signature. Naomi Silva would have signed it. It was  
7 her case.

8 Q. I notice that there is not a signed version in  
9 Exhibit 7, either. If there is a signed version, where  
10 would that be?

11 A. You know, it would be on file with the state  
12 vital statistics office. Everything is done by computer  
13 now. You could call it up.

14 Q. Is -- to the best of your knowledge, is there a  
15 particular time period in which the coroner or the  
16 sheriff is supposed to have a signed death certificate  
17 on file? If you know.

18 A. It's not designated in the code, I don't think.  
19 In the government -- in the State of California  
20 Government Code or Health and Safety Code. Usually it's  
21 done as expeditiously as possible.

22 And, you know, when the body is released there  
23 used to be a document that went along with it. They  
24 file everything electronically now, and the process is  
25 more complicated, and being computer illiterate I'm not

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1 that familiar with it.

2 Q. Certainly because of the circumstances  
3 surrounding Mr. McCornack's death we didn't have any  
4 electrocardiographic printouts.

5 A. That's correct.

6 Q. At least close in time to his death; correct?

7 A. Correct.

8 Q. There are some in Exhibit 7 which were from his  
9 remote past in the records of Dr. Lemm and/or Dr. Von  
10 Dollen; correct?

11 A. Correct.

12 Q. Was NMS labs under instructions to analyze or  
13 not analyze the liver and urine samples that were sent  
14 to them?

15 A. The preferred analysis is blood. So unless I  
16 gave them specific instructions, which I did not, to  
17 analyze liver or blood, they would not do so.

18 Q. Well, the specimens were sent to them, I'm just  
19 wondering why they didn't --

20 A. This is a routine --

21 Q. -- analyze them?

22 A. -- that I adhere to in virtually all the cases  
23 in case something untoward comes up and you want other  
24 analyses, so I routinely send blood, urine, liver.  
25 Doesn't mean that they are going to analyze all of them.



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1 Q. All right. At any point before today's  
2 deposition have you seen any NMS lab results of potency  
3 testing of any of Mr. McCornack's digoxin tablets?

4 A. No.

5 Q. Has Mr. Ernst told you what the results of any  
6 of the NMS lab testing of the potency of his digoxin  
7 tablets was?

8 A. He mentioned that he was going to have some  
9 specimens analyzed, or he has had them, but I haven't  
10 seen them and I didn't know NMS did the analysis.

11 Q. Do you know how many times you have met with  
12 Mr. Ernst before today's deposition regarding Mr.  
13 McCornack?

14 A. I met with him once before today, and then  
15 today.

16 Q. All right. When did you meet with him before  
17 today?

18 A. Wednesday, May 27, 1:00 p.m., at the jet center  
19 here.

20 Q. In the year of our Lord 2009?

21 A. Yes.

22 Q. Okay. Do you have any notes of what that  
23 discussion was about?

24 A. No.

25 Q. Did you say May 29?

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1 A. May 27 of '09.

2 Q. Okay. Have you worked with Mr. Ernst on any  
3 other cases besides the McCornack case?

4 A. No.

5 Q. And then the only other time was meeting him  
6 today; correct?

7 A. Correct.

8 Q. How long did you meet with him today before the  
9 2:00 deposition started?

10 A. We met about noon.

11 Q. Tell me the circumstances which led you to  
12 amend exhibit -- I'm sorry, amend Exhibit 3 into what is  
13 now Exhibit 4.

14 A. Well, you know, looking at the level of digoxin  
15 I had concluded it was a significant factor in the  
16 demise of Mr. McCornack, and I had intentions of  
17 amending it for quite some time, but since I've done oh,  
18 about 180 cases, it's hard to backtrack, and something  
19 was always getting in the way, some other emergent  
20 things to do with other cases.

21 So I wanted to get it done before we had this  
22 seance and wanted to get it done, so I did it yesterday.

23 Q. Okay. And I assume if I asked you the same  
24 question about the changes that caused Exhibit 2 to be  
25 amended into Exhibit 5, would you give me essentially

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1 the same answer?

2 A. Correct.

3 Q. And I don't want to pore through this in every  
4 great detail, but as far as I can tell, the differences  
5 between Exhibit 5 and Exhibit 2 are all on the first two  
6 pages, so far as your report is concerned; is that  
7 correct?

8 A. Correct.

9 Q. And then what Exhibit 5 has that Exhibit 2 did  
10 not is the NMS April 16th, 2008 report, and the NMS June  
11 24th, 2008 report; is that correct?

12 A. Correct.

13 Q. You've heard the phrase post-mortem  
14 redistribution before, have you not?

15 A. Yes.

16 Q. And the April 16, 2008 NMS report, which is  
17 contained in Exhibit 5, discusses, or at least refers to  
18 post-mortem redistribution in reference to a drug called  
19 Diltiazem, does it not?

20 A. Yes.

21 Q. And Diltiazem, let's talk about that a little  
22 bit, is for hypertension, is it not?

23 A. Correct.

24 Q. And it's a calcium -- in the family of calcium  
25 channel blockers?

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1 A. Correct.

2 Q. Have you ever heard calcium channel blockers  
3 referred to as a basic drug?

4 A. Vaguely, yeah, uh-huh.

5 Q. Do you have any idea what they mean in the  
6 literature when they call it a basic drug?

7 A. You know, I don't know whether they mean it's  
8 -- its pH, whether it's basic or, I don't know. I don't  
9 prescribe cardiologic drugs, obviously.

10 Q. I understand.

11 A. I don't treat live people.

12 Usually, if you are referring to something as a  
13 base, it means it's alkaline.

14 Q. When was the last time you did treat a live  
15 person? Back in your residency?

16 A. No. End of '67, early days of '68, Vietnam.

17 Q. Do you know whether digoxin is also considered  
18 a basic drug?

19 MR. ERNST: Objection, vague.

20 A. I think it is. You know, I don't know, you  
21 know it has hydroxy groups on it, so I think it is,  
22 yeah.

23 BY MR. MORIARTY:

24 Q. All right. Have you ever read the package  
25 insert or the label for Diltiazem?

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1 A. No. It's reproduced in the PDR, so I think  
2 I've looked at it a few times.

3 Q. You keep the PDR as a reference --

4 A. Always.

5 Q. -- source?

6 A. Yes.

7 Q. Do you keep Baselt toxicology texts?

8 A. Yes, I do.

9 Q. Do you keep Dart's toxicology text?

10 A. Dart?

11 Q. Dart, D-a-r-t.

12 A. No.

13 Q. To the best of your knowledge, does the  
14 Diltiazem label indicate -- let me withdraw that.

15 Let's not be vague. My version of the  
16 Diltiazem label that I have indicates the concomitant  
17 use of Diltiazem with beta blocker or digitalis may  
18 result in additive effects on cardiac conduction.

19 Would you agree with that?

20 A. Sounds pretty reasonable, yeah.

21 Q. In the drug interaction section of the  
22 Diltiazem label it indicates that pharmacologic studies  
23 indicate that there may be additive effects in  
24 prolonging AV conduction when using beta blockers or  
25 digitalis concomitantly with Diltiazem.

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1           Would you agree with that?

2           A.   Yeah.

3           MR. ERNST:   Do you want to mark that label as  
4 an exhibit?

5           MR. MORIARTY:   I don't, actually.

6           MR. ERNST:   Just checking.

7 BY MR. MORIARTY:

8           Q.   Are you familiar with studies that have -- in  
9 the toxicological literature or textbooks which indicate  
10 that Diltiazem increases serum digoxin concentrations  
11 when the drugs are used concomitantly?

12          A.   No.   I'm not familiar with that.

13          Q.   What, to your knowledge, are the potential  
14 adverse reactions that can occur with Diltiazem?

15          A.   I don't know.   I haven't -- I don't recall.

16          Q.   All right.   The product label for Diltiazem  
17 indicates that bradycardia is one of the possible side  
18 effects.

19               Is that consistent with your knowledge?

20          A.   Yes.

21          Q.   And first degree atrioventricular block --

22          A.   Block.

23          Q.   -- is a potential complication?

24          A.   Yeah.

25          Q.   Am I correct about that?

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1 A. Yes.

2 Q. Can bradycardia and first degree AV block cause  
3 sudden cardiac death?

4 A. Yes.

5 Q. It also indicates here, lists kind of a laundry  
6 list, angina, arrhythmia, AV block second or third  
7 degree, bundle branch block, congestive heart failure,  
8 electrocardiographic abnormalities, hypotension,  
9 palpitation, syncope, tachycardia and ventricular  
10 extrasystole.

11 A. Are those potential complications consistent  
12 with your knowledge and experience?

13 MR. ERNST: Objection, compound.

14 And if you are going to persist in asking  
15 questions from the label, I would ask that it be marked  
16 as an exhibit and let him review the label. You are  
17 reading it and he is being questioned.

18 MR. MORIARTY: That's fine.

19 A. Yeah. Sounds reasonable.

20 BY MR. MORIARTY:

21 Q. Okay. The NMS report in Exhibit 7, both the  
22 one April 16 and the one June 24th, in reference to  
23 Diltiazem say in addition, Diltiazem is reported to  
24 undergo post-mortem redistribution with an average heart  
25 blood/femoral blood ratio of 2.6.

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1 Do you agree that Diltiazem undergoes  
2 post-mortem redistribution?

3 A. Yes.

4 Q. Did you ever -- I'm sorry, did you ever look up  
5 whether the 630 nanograms per milliliter was a level, a  
6 Diltiazem level that was within the normal laboratory  
7 range or outside the normal laboratory range?

8 A. It's a little bit high.

9 Q. It's a lot a bit high, isn't it?

10 A. I think 400, 450 is the normal upper level that  
11 one would prefer.

12 Q. Well, the NMS report says the therapeutic blood  
13 levels of Diltiazem appear to be in the range of 50 to  
14 200 nanograms per milliliter.

15 I'm just going based on their report.

16 A. Yes, okay.

17 Q. So this is some three times the upper level of  
18 normal; correct?

19 A. Yes.

20 Q. Did you ever put in either Exhibit 5 or the  
21 amendments to -- which turned into Exhibit 4, that  
22 Diltiazem was a possible cause of his death?

23 A. No.

24 Q. Why not?

25 A. I just thought the digoxin was more



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1 significant.

2 Q. Let's talk about digoxin.

3 Do you have any clinical experience to indicate  
4 whether a digoxin level of 3.6 standing alone indicates  
5 that the patient is digoxin toxic?

6 A. Well, I don't have any clinical experience,  
7 since everybody that I treat is dead.

8 Q. Okay.

9 A. So, you know, I go by the major textbooks and  
10 what they have to say about it. Harrison's Principles  
11 of Internal Medicine is my primary reference.

12 Q. Well, does Harrison's indicate that a serum  
13 digoxin concentration of 3.6 standing alone means that  
14 the patient has digoxin toxicity?

15 A. Well, they indicate that, you know, the upper  
16 level efficacy, and the level at which you begin to see  
17 untoward effects, is something like two nanograms per  
18 mil.

19 Q. Untoward effects in digoxin toxicity at a level  
20 of 3.6 don't include death, usually, do they?

21 MR. ERNST: Objection.

22 Go ahead. You can answer the question.

23 A. If you get a ventricular arrhythmia they do.

24 BY MR. MORIARTY:

25 Q. Do you know of any study to indicate that

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1 patients are likely to get a ventricular arrhythmia and  
2 die with a serum digoxin concentration of 3.6?

3 A. All I can tell you is it is a toxic level. No,  
4 I haven't --

5 Q. In fact, actually all you are able to tell us  
6 is that it is an elevated level; is that correct?

7 A. Well, according to what I read it's a toxic  
8 level.

9 Q. "Toxic" does not mean death in all cases, does  
10 it?

11 MR. ERNST: Objection. He has explained that.

12 A. No. It doesn't necessarily mean death in all  
13 cases, no.

14 BY MR. MORIARTY:

15 Q. All right. Did -- in the last day or so, as  
16 you were preparing Exhibits 4 and 5, did Mr. Ernst tell  
17 you anything about what the NMS laboratory forensic  
18 toxicologist had to say about the 3.6 post-mortem dig-  
19 level that they reported and are contained in your  
20 Exhibit 7?

21 A. No. I assumed since they didn't tell me  
22 anything and -- you know, they won't tell him anything  
23 because they didn't have anything to say about it.

24 Q. Did Mr. Ernst tell you that I took the NMS  
25 forensic toxicologist's deposition Tuesday in

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1 Philadelphia and examined him extensively about the PMR,  
2 or the post-mortem digoxin level of 3.6?

3 A. He mentioned that there had been a deposition,  
4 but I didn't -- he didn't say anything about what the  
5 deponent had to say.

6 Q. Would it be of any interest to you to know what  
7 a forensic toxicologist said about the post-mortem  
8 digoxin level of 3.6 that their own lab performed?

9 A. Yeah, it would, because the asshole didn't put  
10 anything in his report and I would hope he would convey  
11 something to me. That's what we pay them for. But they  
12 are very noncommittal, so I would be really anxious to  
13 hear what he had to say.

14 Q. Did you ever pick up the phone and call him?

15 A. No, I didn't.

16 Q. Did you e-mail him?

17 A. No, I didn't.

18 Q. Have you done any research about post-mortem  
19 redistribution with digoxin?

20 A. No, I haven't.

21 Q. Do you keep any literature file regarding  
22 post-mortem redistribution of drugs in general?

23 A. You know, if you are taking blood from a  
24 peripheral blood, I don't think it's a major problem.  
25 Certainly if you are taking heart blood and you have

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1 tissue like myocardium, which is going to have some  
2 digoxin in it, and the blood is sitting in there and  
3 then you are taking a sample of that blood, I think  
4 post-mortem redistribution would be significant.

5 But if it's out on the periphery, I'm not sure  
6 that it comes into play here.

7 Q. Is it the consensus of the forensic toxicology  
8 community that you cannot calculate with scientific  
9 probability someone's predeath drug level based on a  
10 post-mortem finding?

11 MR. ERNST: Objection, that calls for  
12 speculation and asks his opinion about -- calls for  
13 speculation.

14 BY MR. MORIARTY:

15 Q. Go ahead.

16 A. I would like to hear that question again.

17 MR. MORIARTY: Read it back, please.

18 (Record read as requested.)

19 MR. ERNST: I object. What basis does he have  
20 for the consensus of the toxicology community?

21 MR. MORIARTY: If he doesn't have a basis, he  
22 can tell me. I think he said before this he was a  
23 professional witness, so I'm sure he can tell me if he  
24 has no basis to answer that question.

25 A. If your toxicologist or my toxicologist

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1 actually made that statement, I would like to see it in  
2 print in that deposition, because it surely doesn't make  
3 too much sense.

4 Why are we doing these analyses if the results  
5 have absolutely no significance? It sounds like the  
6 purest form of bullshit I have ever heard.

7 BY MR. MORIARTY:

8 Q. Have you been asked by Mr. Ernst or anyone else  
9 to attempt a calculation of what Mr. McCornack's serum  
10 digoxin level was at the time of or just before he died?

11 A. No.

12 Q. In your opinion in general, does digoxin  
13 redistribute post-mortem?

14 A. I would think it would, or it could in a heart  
15 blood specimen. In a peripheral specimen I would not  
16 expect that to be a problem.

17 Q. I want to read you a quotation from Baselt's  
18 toxicology text, the one you keep in your office.

19 Page --

20 MR. ERNST: Do you have a reference?

21 MR. MORIARTY: Page 462.

22 Q. "It has been determined that serum digoxin  
23 levels nearly always increase after death due to  
24 leaching from muscle, with an average  
25 post-mortem/antemortem ratio ranging from 1.42 for

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1 femoral vein blood specimens, to 1.96 for heart blood  
2 specimens."

3 Do you agree with that statement?

4 A. I've seen it.

5 MR. ERNST: Would you like to attach that sheet  
6 as an exhibit as well?

7 MR. MORIARTY: No.

8 Q. Do you agree with it?

9 A. I'm sorry, what page was that from?

10 Q. 462.

11 A. What book is this?

12 Q. Baselt's Eighth Edition, Disposition of Toxic  
13 Drugs and Chemicals In Man.

14 He is looking at a different edition is all I  
15 know. Do you have a different edition?

16 A. Seventh.

17 Q. My question is: Do you agree with the  
18 statement that I read?

19 A. No. I don't even really consider it. I'm  
20 looking at the levels of drug that I got out of a  
21 peripheral blood sample. It's well into a toxic level  
22 and I don't know what to say about your question.

23 Q. Was the McCornack blood specimen frozen before  
24 it was sent to NMS labs?

25 A. No.

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1 Q. Was it centrifuged?

2 A. No.

3 Q. Does moving a body after death affect  
4 post-mortem redistribution?

5 A. I wouldn't think so, unless you are doing  
6 something that approximates cardiac massage. I don't --  
7 I've never heard that.

8 Q. Is it well known that the time between death  
9 and the draw of the blood specimen is a significant  
10 factor to consider in whether the post-mortem specimen  
11 would accurately reflect antemortem levels?

12 A. I think, you know, refrigeration comes into  
13 that. Certainly if you are -- you know, allowing a  
14 significant period of time, say at room temperature, you  
15 are going to have some decomposition change. You know,  
16 we do the best we can. We refrigerate immediately upon  
17 receipt of the body, and that's our practice. And  
18 that's the specimens we get to derive our blood samples  
19 from.

20 Q. Okay. Well, that may be the practice, and it  
21 may be state of the art, my only question is: Isn't it  
22 well known that the longer the time between the  
23 post-mortem draw and the time of death, the more likely  
24 it is to be post-mortem redistribution?

25 MR. ERNST: Objection, vague as to time.

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1 A. I don't know that that's true.

2 BY MR. MORIARTY:

3 Q. It says here in this Baselt chapter, again at  
4 the same page, 462, Fletcher, et al., 1979, suggested  
5 that post-mortem blood samples for digoxin assay be  
6 taken from the peripheral circulation within a few hours  
7 after death. That they be completely hemolyzed by  
8 freezing and thawing several times and centrifuged  
9 before analysis. The analytical value may then be  
10 multiplied by 1.3 to estimate the serum digoxin  
11 concentration at the moment of death.

12 Have you ever heard that?

13 A. Yes, I've heard that.

14 Q. Do you agree with it?

15 A. Sounds great.

16 Q. But of course the time of draw in this case was  
17 some 70 plus hours between Mr. McCornack's death and the  
18 blood draw; right?

19 A. That's true.

20 Q. Do you know whether the Dart toxicology text is  
21 a well-respected authority in the field of toxicology?

22 A. I've heard of it. You know, I haven't had much  
23 interaction with it.

24 Q. What has Mr. Ernst told you about when Mr.  
25 McCornack took his last digoxin dose prior to his death?



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1 A. Nothing.

2 Q. So you don't know anything about that issue?

3 A. No.

4 Q. Do you know anything about the optimal timing  
5 of digoxin sampling, serum digoxin sampling in relation  
6 to dose in the living?

7 A. No.

8 Q. Have you ever read the Lanoxin or the Digitek  
9 label, whether it was in the PDR or in a package insert?

10 A. I think I've looked at it in the PDR, yeah.

11 Q. Does the -- do the labels for both of those  
12 products, Lanoxin and Digitek, indicate that the optimal  
13 time for sampling is six to eight hours after last dose?

14 A. I don't know. It sounds reasonable, yeah.

15 Q. Do you know what the volume of distribution for  
16 digoxin is?

17 A. No.

18 Q. Do you have an opinion in this case as to  
19 whether Mr. McCornack's digoxin redistributed after he  
20 died?

21 A. You know, if this was a cardiac sample, you  
22 know, I would feel that it would be a very strong  
23 possibility. Peripheral blood sample I'm not concerned  
24 about.

25 Q. Okay. What literature did you bring with you

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1 today?

2 A. Oh, I've got the seventh edition of Baselt's  
3 book. I've got like -- all my books are old, 14th  
4 edition of Harrison's textbook of medicine on clinical  
5 toxicity of digoxin. I've got something from the 9th  
6 edition of Harrison.

7 And a few pages from Braunwald's Heart Disease,  
8 Textbook of Cardiovascular Medicine that mentions a  
9 variety of arrhythmias can be due to digitalis.

10 Q. Okay. These are -- other than the Baselt  
11 seventh edition chapter that you have, these are  
12 otherwise clinical references, are they not?

13 A. Yeah. I have to keep that stuff, because I'm  
14 looking at clinical records sometimes from clinical  
15 physicians and have some standards by which to, you  
16 know, judge them by.

17 Q. Okay. But you didn't look at other toxicology  
18 references to do any checking on the current literature  
19 on post-mortem redistribution of digoxin; is that  
20 correct?

21 A. That's correct.

22 MR. ERNST: We have been going about an hour  
23 and 15 minutes, I'd like to use the restroom.

24 MR. MORIARTY: You are more than welcome to do  
25 that. I will even stop questioning while you go.

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1 MR. ERNST: Thank you. Take a ten-minute  
2 break?

3 (Break taken.)

4 (Marked Deposition Exhibits 9 through 15.)

5 MR. MORIARTY: First may I have Exhibit 7?

6 MS. DONAHUE: (Handing document to counsel.)

7 MR. MORIARTY: Thank you.

8 Q. This page that we put the Post-It on, that is  
9 going to be Exhibit 8 later, a separate Exhibit 8, is  
10 this the half-page sheet that you fill out and give to  
11 the deputy investigator for her to then fill out her  
12 report?

13 A. No. That's a carbon copy of NMS's toxicology  
14 request form.

15 Q. Okay. Is the half-page sheet that you fill out  
16 and give to the investigator part of Exhibit 7?

17 A. You know, I don't see it here. It should be.  
18 It should be.

19 Q. Have you looked in here for it? In Exhibit 7?

20 A. I recall looking in Exhibit 7 and I didn't see  
21 it.

22 Q. Okay.

23 A. It's not here.

24 Q. All right. In the NMS lab report it gives an  
25 alcohol, blood alcohol level.

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1 Do you remember that?

2 A. Yeah.

3 Q. Did you try to compute how many drinks that  
4 would be for a man of Mr. McCornack's size?

5 A. I think it's .048 or something. I think you  
6 could call it a .05. You know, that probably represents  
7 about two and a half drinks, you know, for a 150 pound  
8 man, it would probably be a little bit more for a 220  
9 pound man.

10 Q. Well, I happen to have the DMV from  
11 California's chart regarding this.

12 Have you ever seen this chart?

13 A. Yeah, I've seen it. Yeah.

14 Q. What did you say his level was?

15 A. Isn't it .048 or something? Yeah. .048. So  
16 call it a .05.

17 Q. All right. So .05 would be in the gray zone,  
18 and in a man 210 pounds and up --

19 MR. ERNST: What are we looking at here?

20 MR. MORIARTY: This is the printout from the  
21 California DMV, it's a chart.

22 Q. Just according to the California chart, what  
23 would -- how many drinks would that equate to in a man  
24 210 pounds or more?

25 MR. ERNST: Well, the chart speaks for itself,

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1 so you are asking him to interpret the chart.

2 MR. MORIARTY: I am, because it's hard to  
3 interpret.

4 MR. ERNST: It's a DMV chart and it's not  
5 something that I think he normally does. I object there  
6 is no foundation.

7 MR. MORIARTY: All right. And actually --

8 MR. ERNST: It's beyond -- there is no  
9 foundation, it's not authenticated, there is no basis  
10 for it, but he can go ahead and answer the question for  
11 discovery purposes.

12 MR. MORIARTY: Don, I think you just need to  
13 say the word objection, because that's what PTO 22  
14 contemplates. I've let it go, but I'm not going to let  
15 it go anymore.

16 A. You know, this is a strange looking chart. I  
17 don't see the numbers for the --

18 BY MR. MORIARTY:

19 Q. Well, at least you and I agree on that. It's a  
20 strange looking chart.

21 Look on the next page. I think that's where  
22 they tell you what the blood alcohol equates to a  
23 shading?

24 A. Yeah, the gray, okay. Okay.

25 Q. So the gray --

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1 A. The gray --

2 Q. -- is .05?

3 A. The gray is .05 to .07.

4 MR. ERNST: May I have a continuing objection  
5 to this line of questioning on my former basis, Counsel?

6 MR. MORIARTY: You certainly may.

7 MR. ERNST: Thank you.

8 THE WITNESS: I have no idea when he stopped  
9 drinking, though.

10 BY MR. MORIARTY:

11 Q. If you can't interpret the chart, just tell me  
12 you can't interpret the chart.

13 A. I'm trying to make you happy, Moriarty.

14 Q. I don't think so.

15 A. I'm having difficulties here. I don't know  
16 what to say about this chart.

17 Q. Okay. Then that's fine.

18 Would you agree with me that if you were trying  
19 to assess whether a drug was a cause of death, you would  
20 want to know the level of the drug in the body before  
21 death? If you could.

22 A. Yeah. Yeah. Uh-huh.

23 Q. And you would want to know the level after?

24 A. Yeah. If you could do that, yeah.

25 Q. And would you also want to know whether the

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1 body and the drug are known to undergo post-mortem  
2 changes which would affect the drug level in the body?

3 MR. ERNST: Objection, compound.

4 A. You know, there are all sort of unknowables  
5 that one accepts in this business. You know, obviously  
6 I can't get drug levels before somebody dies and I'm  
7 restricted to examining their body and body fluids after  
8 death. So that's what I've got.

9 Q. All right. I understand your answer, but  
10 wouldn't you want to know, as a scientist, whether the  
11 body and the drug undergo post-mortem changes so that  
12 you could interpret the post-mortem level?

13 Yes or no.

14 A. What changes are you speaking of?

15 Q. Well, post-mortem redistribution, for one.

16 A. Whatever it is, you know, I can't tell. As I  
17 said before several times, I think it would be more of a  
18 prominent factor with heart blood and less with  
19 peripheral blood, and I've got peripheral blood there,  
20 so that's what I've got.

21 Would I want to know how exactly it worked, how  
22 it was quantified? Yeah, if I could, but I can't.  
23 There is no way for me to know these things.

24 Q. All right. But -- there is no way to know with  
25 certainty, but there is published literature from

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1 scientists who have tried to evaluate post-mortem  
2 redistribution of digoxin, isn't there?

3 A. Yeah, there is some.

4 Q. And you have changed an autopsy and a death  
5 certificate cause of death based on a post-mortem whole  
6 blood digoxin level, haven't you?

7 A. I have.

8 Q. Okay. So apparently the post-mortem level of  
9 3.6 was compelling information to you.

10 A. It sure is.

11 Q. All right. And in trying to figure out how  
12 compelling that information is scientifically, we would  
13 want to know how reliable that 3.6 is, wouldn't we, in  
14 predicting what his level was before he died?

15 A. Well, again, it's what I've got, it's what I  
16 normally use, and that's what I've got.

17 Q. It can't be what you normally use --

18 A. If you want, it would be some esoteric fudge  
19 factor for me to say how much was redistributed. I  
20 don't know. I don't know that somebody could tell you  
21 well, maybe it occurs this much in somebody, and it may  
22 be this much in somebody else. I don't know.

23 Q. And you can't say to a reasonable medical  
24 probability; right?

25 MR. ERNST: Objection, he has --



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1 A. I think --

2 MR. ERNST: Objection.

3 BY MR. MORIARTY:

4 Q. Go on.

5 A. I think 3.6 represents a toxic level. And even  
6 if there is some added on by post-mortem redistribution,  
7 it's far above a level where you are not going to have  
8 toxic effects. So I think it represents a true toxic  
9 agent in this particular case.

10 Q. Okay. Has Mr. Ernst asked you to render any  
11 opinion about how the level reached 3.6, even if it's an  
12 accurate level?

13 A. No.

14 Q. So you are not going to express opinions about  
15 whether Diltiazem drove a level up or renal issues drove  
16 the level of that or any other cause; correct?

17 A. Correct.

18 Q. Do you read, or subscribe to, any medical  
19 journals and review them on a regular basis?

20 A. Yeah. Yeah.

21 Q. Which ones?

22 A. American Journal of Pathology, the -- I forget  
23 the title now, it's a forensic medicine journal, and I  
24 look at the New England Journal, read it in the library.

25 Q. What about the Journal of Clinical Pathology?

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1 A. I used to. I don't subscribe to that anymore.

2 Q. When did you stop subscribing to it?

3 A. A number of years ago.

4 Q. Do you review it on line, even if you don't  
5 subscribe to it?

6 A. If there is some specific reference that I --  
7 I'm interested in, I will go to the medical library and  
8 find it.

9 Q. Did you look for any articles about digoxin in  
10 the Journal of Clinical Pathology as part of your work  
11 in this case?

12 A. No, I didn't.

13 Q. Can you tell me whether you've done any  
14 research yourself on post-mortem redistribution of any  
15 drug?

16 A. No, I haven't.

17 Q. Do you have a -- any teaching appointments  
18 currently?

19 A. Yes, one.

20 Q. What is it?

21 A. I teach homicide investigation of police  
22 officers, San Jose State University, Department of  
23 Administration of Justice.

24 Q. I want to read you something from a year 2000  
25 article from the Journal of Clinical Pathology and ask

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1 you whether you agree with it.

2 MR. ERNST: Uhm --

3 MR. MORIARTY: No, is the answer to your next  
4 question. I don't even have the article to mark it as  
5 an exhibit if you asked.

6 MR. ERNST: I want the page and line number and  
7 title of the article.

8 MR. MORIARTY: Well, I can only tell you the  
9 authors were Cook and Braithwaite.

10 Q. It is often necessary to determine whether the  
11 drug concentration found at the post-mortem examination  
12 should be attributed to either therapeutic ingestion or  
13 overdose. This is very difficult to determine because  
14 of the influence of post-mortem change. The use of  
15 post-mortem/antemortem ratios, or back extrapolation  
16 from a post-mortem concentration is not recommended.

17 Do you agree or disagree?

18 MR. ERNST: Objection, compound. No  
19 foundation. Assumes facts not in evidence. It's an  
20 incomplete hypothetical.

21 A. That is a quote that you --

22 MR. MORIARTY: Objection under PTO 22.

23 MR. ERNST: You know what? Pardon me. It was  
24 a force of habit. Please forgive me. As long as we are  
25 here I will continue with just objection.

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1 MR. MORIARTY: That's fine. That's really all  
2 you have to say.

3 THE WITNESS: Could I read that paragraph?

4 MR. MORIARTY: No, because it's in something I  
5 wrote. It's a memo.

6 THE WITNESS: You wrote it yourself?

7 BY MR. MORIARTY:

8 Q. No. Cook and Braithwaite wrote it.

9 A. And you are interpreting Cook and Braithwaite.

10 Q. No, I'm reading you a quote and just asking if  
11 you agree or disagree. It's out of the Journal of  
12 Clinical Pathology.

13 Do you agree with that statement or disagree  
14 with it?

15 MR. ERNST: Objection.

16 A. What was the point of the paragraph? Read --  
17 making an evaluation of whether the -- an apparent  
18 overdose is deliberate or accidental, is that what you  
19 are saying?

20 BY MR. MORIARTY:

21 Q. This is a study done in which they analyzed  
22 whether drug concentrations post-mortem were reliable  
23 indicators of antemortem levels, and the quote is, it is  
24 often necessary to determine whether the drug  
25 concentration found at the post-mortem examination

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1 should be attributed to either therapeutic ingestion or  
2 overdose. This is very difficult to determine because  
3 of the influence of post-mortem change. The use of  
4 PM/AM, which I assume means post-mortem/antemortem,  
5 ratios or back extrapolation from a post-mortem  
6 concentration is not recommended.

7 Do you agree or disagree?

8 MR. ERNST: Objection.

9 A. It's awfully vague. This is something where we  
10 are sort of asked to do all the time, to look at a  
11 post-mortem level of drug and give an opinion as to  
12 whether it's significant or not. And in relation to  
13 cause of death, all I can tell you is you look at the  
14 numbers, and you look at the drug, and come to some  
15 conclusion. That's all. That's what we are required to  
16 do under the law.

17 BY MR. MORIARTY:

18 Q. I understand that, but not all drugs are the  
19 same post-mortem; correct? I mean, some redistribute  
20 and some don't; right?

21 MR. ERNST: Objection.

22 BY MR. MORIARTY:

23 Q. Some have affinities for different tissue and  
24 some don't?

25 A. Yes, some have affinity for redistribution and

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1 some don't, sure.

2 Q. And digoxin has an affinity for muscle tissue,  
3 skeletal and cardiac; correct?

4 A. Yes, it does.

5 Q. When somebody dies there is changes in pressure  
6 and metabolism and fluid shifts that cause things to  
7 leach out of skeletal muscle into blood; correct?

8 A. Yes.

9 Q. So something that may not be in the blood or  
10 serum at the time somebody is alive may be in the blood  
11 or serum after they are dead; correct?

12 A. It's possible, sure.

13 Q. Have you been shown any information at all to  
14 indicate that Mr. McCornack took Digitek tablets that  
15 were outside of their labeled specification range?

16 MR. ERNST: Objection.

17 A. No.

18 BY MR. MORIARTY:

19 Q. Okay. I'm sort of in the home stretch, I  
20 think. It may be a long stretch, but a home stretch.

21 A. Take your time. You are paying for it.

22 Q. This 3.6 level, the post-mortem digoxin level  
23 from the NMS blood specimen, am I correct that that  
24 level standing alone does not prove the cause of Mr.  
25 McCornack's death?

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1 MR. ERNST: Objection.

2 A. It's a toxic level. My inference is that it  
3 caused some sort of adverse reaction to his heart and  
4 caused his death. It's -- you know, given just the  
5 number, it's a toxic level.

6 BY MR. MORIARTY:

7 Q. Well, the Diltiazem level is three times the  
8 level and it causes sudden cardiac death as an adverse  
9 reaction, too. How come Diltiazem is not a cause of  
10 death?

11 A. You've got a good point there. Maybe I should  
12 have listed both of them.

13 Q. Since I've suggested it, are you going to  
14 revise Exhibits 4 and 5 tomorrow so that when I come  
15 back next week we will have more exhibits?

16 MR. ERNST: Objection.

17 MR. MORIARTY: I'll withdraw that question.

18 A. I'll probably have to think about it for a  
19 couple of months.

20 BY MR. MORIARTY:

21 Q. When you were doing the autopsy and dictated  
22 your initial report, which was Exhibit 2, based on the  
23 evidence you had before you, including the medical  
24 records you had from Drs. Von Dollen and Lemm, I assume  
25 there were plausible explanations for his sudden death

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1 that had nothing to do with digoxin; is that correct?

2 A. Yeah. In this business you take what you get.  
3 He had some hypertensive heart disease, he had some  
4 myocardial fibrosis, he had some coronary  
5 arteriosclerosis.

6 If you don't find anything better, then you use  
7 those. That's the way it works.

8 Q. And in the Lemm and Von Dollen records, did you  
9 find any serum digoxin concentrations that were anywhere  
10 close to even the day he died?

11 A. I don't recall that I did, no.

12 Q. Would you like to look? I can assure you there  
13 are none for almost a year or more.

14 A. You look like an honest Irishman to me, I'll  
15 take your word for it.

16 Q. So there weren't any, to your knowledge?

17 A. I don't think there were.

18 Q. Did you see any medical records close to the  
19 time of his death indicating that he had signs or  
20 symptoms of digoxin toxicity?

21 A. No, I don't recall seeing that.

22 Q. And I think I asked you before, there were no  
23 EKGs so we can't evaluate whether he had any arrhythmias  
24 consistent with digoxin toxicity; is that correct?

25 A. That's correct.



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1 Q. Let me make sure I understand your opinion.

2 Is it your opinion, to a probability, that the  
3 level of 3.6 is higher than it was just before he died?

4 And then we will go on to examine  
5 quantification of that.

6 A. I don't know. I'm taking the 3.6 as a  
7 representative number for his digoxin level at or about  
8 the time that he died.

9 Q. Why?

10 A. Because it's what I've got. And that's the way  
11 I'm doing it.

12 Q. Okay. But what you have got was drawn over 70  
13 hours after his death, and I'm just wondering what's the  
14 scientific basis beyond "it's what I've got" for your  
15 accepting that that is what it was at the time of death?

16 MR. ERNST: Objection.

17 A. The body was refrigerated for the post-mortem  
18 interval. I'm not saying that it couldn't be a little  
19 bit higher than it was at the time of death. I'm saying  
20 it's a good enough representation of what his digoxin  
21 level was at the time of death, and it's the basis for  
22 the diagnosis of arrhythmia due to digitalis toxicity.

23 BY MR. MORIARTY:

24 Q. Or Diltiazem?

25 A. Or Diltiazem.

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1 MR. ERNST: Well --

2 A. Or both.

3 MR. ERNST: Objection.

4 BY MR. MORIARTY:

5 Q. Now, in the studies --

6 MR. ERNST: You want to take a break?

7 MR. MORIARTY: No, I don't.

8 Q. In the studies regarding post-mortem  
9 redistribution of digoxin, do you know whether or not  
10 those dead bodies had been refrigerated or not  
11 refrigerated?

12 A. I don't know.

13 Q. What is the -- the mere fact of refrigeration  
14 for 60 to 65 hours, whatever the number happened to be  
15 by the time they got Mr. McCornack to the morgue, what's  
16 the scientific principle that makes that blood specimen  
17 scientifically reflective?

18 A. It's pretty basic. Everything moves slower  
19 when it gets cold. Biologic processes, decomp,  
20 whatever.

21 Q. Do you have any idea how long after his death  
22 he made it to the refrigeration equipment in your  
23 facility?

24 A. Within an hour or two of being reported to us.

25 Q. Well, somebody had go to the scene and

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1 pronounce him dead; correct?

2 A. Yes.

3 Q. And then I don't know how far this campground  
4 is from your facility.

5 Do you know the answer to that?

6 A. It's about 20, 25 minutes, maybe. Late at  
7 night.

8 Q. I'm just trying to find out, since this may be  
9 my one and only chance to ask you about this, all the  
10 scientific reasons that you can express to me why you  
11 believe that 3.6 in the NMS lab report is reflective and  
12 does not represent a substantial post-mortem  
13 redistribution.

14 MR. ERNST: Objection.

15 A. You know, I think I iterated them a number of  
16 times already.

17 BY MR. MORIARTY:

18 Q. Okay. So you have nothing to add to what I've  
19 already asked you?

20 A. No.

21 Q. Okay. All right. Just so I'm clear, because I  
22 got off track where I was, I had asked you about  
23 clinical evidence of digoxin toxicity in any of the  
24 medical records, and you said you didn't have any  
25 available to you to indicate that; correct?

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1 A. Correct.

2 Q. Is there anything from Exhibit 1, the -- your  
3 investigator's report, that gives you clinical evidence  
4 of digoxin toxicity?

5 A. No.

6 Q. And then there was no electrocardiographic and  
7 no antemortem lab levels; correct?

8 A. Correct.

9 Q. So the only piece of evidence that you have to  
10 support what you have said in Exhibits 4 and 5 about the  
11 new cause of death is the post-mortem lab level of 3.6;  
12 correct?

13 A. Correct.

14 Q. In the State of California, does a -- is a  
15 clinician asked to sign death certificates or is it  
16 always the coroner or the coroner's investigation?

17 A. We do everything but kiss their rosy red  
18 bottoms to get them to sign death certificates. We  
19 would be very happy. Now if something is due -- the  
20 primary type of case in which they can sign death  
21 certificates, it has to be a natural death.

22 Anything where death is due to trauma, even  
23 relatively minor trauma, the code prevents them from  
24 signing the death certificate. But if it's a natural  
25 death and they are familiar with the medical history of

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1 the patient, the code states that they should have seen  
2 the patient within 20 days, but there are amendments to  
3 that, and if they have seen the patient for, you know,  
4 up to six, nine months, and they feel confident that  
5 they are familiar with the patient's medical condition,  
6 they prescribed for the patient, they can sign and we  
7 encourage them to do so.

8 What we find most the time is that they are  
9 very reluctant to sign death certificates.

10 Q. Do you know whether your office ever asked  
11 either Dr. Lemm or Dr. Von Dollen to sign the original  
12 death certificate, Exhibit 3?

13 A. You know, I can't tell you for a fact that they  
14 did. I'm assuming that they made inquiry as to whether  
15 they would.

16 Q. And when you say "they," are you talking about  
17 the sheriff's investigators?

18 A. I'm talking the investigators. I've only got  
19 three.

20 Q. Do you know if any of the investigators have  
21 asked either Dr. Von Dollen or Dr. Lemm to sign the new  
22 death certificate, Exhibit 4?

23 A. It's the coroner's case, they couldn't. It's  
24 an accidental death.

25 Q. Well, up until yesterday it was a natural

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1 death.

2 A. Yes, but it's not any longer, it's an  
3 accidental death.

4 Q. So they will no longer be asked to sign the  
5 death certificate for Mr. McCornack; correct?

6 A. Correct.

7 Q. Do you -- I assume, based on what you have told  
8 me so far, you do not prescribe cardiac glycosides?

9 A. No.

10 Q. You don't prescribe calcium channel blockers?

11 A. No.

12 Q. Do you have any clinical experience with serum  
13 digoxin concentration levels in the living?

14 A. No.

15 Q. When you were practicing back in the late '60s,  
16 were serum digoxin concentration assays even  
17 commercially available?

18 A. I don't believe so, no.

19 Q. How often do you believe you are called upon to  
20 render opinions that a drug was a cause of death or  
21 contributed to cause of death?

22 A. It's fairly frequent. We get a fair number of  
23 overdose cases per year.

24 Q. Is it fair to say that the more medications a  
25 person is on, the higher the risk that they may interact

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1 in some way?

2 MR. ERNST: Objection.

3 A. Yes, that sounds reasonable, sure.

4 BY MR. MORIARTY:

5 Q. Do you know anything about Mr. McCornack's  
6 renal status?

7 A. No. They were fairly normal-looking kidneys,  
8 and I've got no history of any renal problems.

9 Q. Do you know whether diminished excretion of  
10 digoxin from the kidneys because of renal insufficiency  
11 can elevate serum digoxin concentrations?

12 A. Yes, it can.

13 Q. Do you have any opinion in this case as to  
14 whether Mr. McCornack had any renal insufficiency that  
15 would have elevated his digoxin levels --

16 A. I don't recall --

17 Q. -- antemortem?

18 A. I don't recall seeing anything in the medical  
19 records that I have that he has any renal insufficiency.

20 Q. Okay.

21 MR. MORIARTY: I'm missing a bunch of exhibits  
22 and they are not under my elbows.

23 MR. ERNST: (Handing documents to counsel.)

24 MR. MORIARTY: Thank you.

25 Q. Do you know what lab studies in the living are

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1 typically referred to when trying to analyze whether  
2 somebody has renal insufficiency or not?

3 A. You could, you know, you could look at  
4 creatinine, creatinine clearance, things of that nature.

5 Q. "Things of that nature" being BUN?

6 A. BUN elevated.

7 Q. And estimated glomerular filtration rate?

8 A. Filtration rate.

9 Q. All right. When we took our last break I had  
10 been asking you about literature, and during the break  
11 we went through and marked some of the literature that  
12 you brought.

13 Exhibit 9 is the seventh edition of Baselt's  
14 text, the chapter on digoxin; is that correct?

15 A. Correct.

16 Q. And you brought that with you?

17 A. Yes.

18 Q. And Exhibit 10, do you know if -- this kind of  
19 looks like Harrison's. Is that what this is?

20 A. Yes.

21 Q. No, actually --

22 A. Wait a minute.

23 Q. I'm sorry. It's actually Tortora and -- it's  
24 Tortora's anatomy and physiology text.

25 A. Yes.



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1 Q. I should know that, I have that book.

2 11 is something from the second edition of  
3 Braunwald's text?

4 A. Yes.

5 Q. Pretty old edition, isn't it?

6 A. Yeah.

7 Q. 12, Exhibit 12, is from -- some information you  
8 pulled from Harrison's; correct?

9 A. Correct.

10 Q. Do you know what Exhibit 13 is from? Looks  
11 like Harrison's again --

12 A. Yes.

13 Q. -- right?

14 And then 14 and 15 are letters that I assume  
15 you received from Don Ernst; is that correct?

16 A. Correct.

17 Q. It says here in the May 7, 2009 letter that he  
18 would like to retain your services as an expert and  
19 consultant in this case.

20 Have you agreed to do that for him?

21 A. Yes.

22 Q. Have you billed him to date for any services in  
23 this case?

24 A. I billed him \$500 for this meeting that we had  
25 at the jet center here on May 27, '09.

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1 Q. For consulting with lawyers on civil cases do  
2 you charge by the hour?

3 A. \$500 an hour, yes.

4 Q. Am I being charged the same thing --

5 A. You are.

6 Q. -- for the time spent in this questioning;  
7 right?

8 A. Correct.

9 Q. At the time Mr. Ernst wrote you this letter on  
10 May 7th, 2009, the then existing autopsy and death  
11 certificate were Exhibits 2, the autopsy, and 3, the  
12 death certificate; correct?

13 A. Correct.

14 Q. And then later, sometime in the middle of the  
15 summer, Mr. Ernst sent you Exhibit 15 with certain  
16 materials; correct?

17 A. Yes.

18 Q. And he resent the NMS labs report that in fact  
19 your office had had for over a year at that point;  
20 correct?

21 A. Yes.

22 MR. MORIARTY: All right. Let me just talk to  
23 Alicia, and then I'll be done with questioning and the  
24 two of you can have whatever fun you want.

25 Is that okay?

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1 MR. ERNST: Sure.

2 (Break taken.)

3 EXAMINATION BY MS. DONAHUE

4 Q. Good afternoon, Doctor, we met before the  
5 deposition. I'm Alicia Donahue --

6 A. Yes.

7 Q. -- representing the Mylan defendants in this  
8 case. I have just a few questions for you. Probably  
9 more of a general nature.

10 We have talked a little bit, quite a bit in  
11 your deposition about this changed -- addendum to the  
12 death certificate and changes to your original report  
13 that you made yesterday; correct?

14 A. Yes.

15 Q. And yesterday is approximately six months, give  
16 or take a few days, post the original report?

17 A. Yes.

18 Q. Okay. In the normal scope of your general  
19 practice as the coroner of the County of Santa Cruz, or  
20 the, quote unquote, coroner, is it unusual for you to  
21 amend a report so far after your original report?

22 A. Could be as much as a year.

23 Q. In the past year how often have you changed  
24 your original report six months post the time that you  
25 wrote it?

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1 A. There may have been two or three other cases.

2 Q. Okay. And if you think back, you know, five  
3 years past in your career, how often has that happened?

4 A. You know, I don't know. Again, it wouldn't  
5 surprise me if it could occur two or three times a year.

6 Q. So you wouldn't describe it as something  
7 unusual.

8 A. No. No.

9 Q. You testified in response to Mr. Moriarty's  
10 questioning that -- let me look at my notes so I will  
11 get it right.

12 He asked you about the circumstances of the  
13 change in your report, the circumstances leading up to  
14 them, and you said I had decided to do it, to make the  
15 change, after getting the NMS results but I just didn't  
16 get around to it because I had 180 cases that came in  
17 between, so I did it yesterday.

18 That's the kind of gist of your testimony.

19 A. Yes.

20 Q. Okay. In regard to the meeting that you had  
21 with Mr. Ernst back in May, had you made the decision to  
22 change your report before going to that meeting?

23 A. Yes.

24 Q. Do you remember how long before?

25 A. No.

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1 Q. Do you remember how long before that report you  
2 had seen -- before that meeting with Mr. Ernst you had  
3 seen the NMS report?

4 A. I don't recall.

5 MS. DONAHUE: That's all the questions I have.  
6 Thank you.

7 THE WITNESS: Thank you.

8 MR. ERNST: I have no questions.

9 MR. MORIARTY: Okay.

10 MR. ERNST: Just clarification, though.

11 Exhibit 5, may I look at Exhibit 5?

12 MR. MORIARTY: They are in order now. You are  
13 not going to mess up my stack, are you?

14 MR. ERNST: Well --

15 EXAMINATION BY MR. ERNST

16 Q. Exhibit 5, the cover sheet, ventricular  
17 arrhythmia, digoxin toxicity, digoxin poisoning,  
18 accidental death is your opinion today; true?

19 A. Yes.

20 MR. ERNST: Thank you. That's all.

21 FURTHER EXAMINATION BY MR. MORIARTY

22 Q. Do you have any other opinions that are not  
23 contained in Exhibits 4 or 5 and that we have not yet  
24 asked you about today?

25 A. No.

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1 MR. ERNST: Objection.

2 A. No.

3 MR. MORIARTY: What's the basis for that  
4 objection? I want the ability to cure that one.

5 MR. ERNST: There may be information that will  
6 derive from later depositions and information that will  
7 be distributed amongst all experts he may have other  
8 opinions for.

9 BY MR. MORIARTY:

10 Q. I'm just asking you today do you have any other  
11 opinions that are A, not contained in Exhibits 4 or 5;  
12 and B, that I have not asked you about yet?

13 A. No.

14 MR. MORIARTY: Okay.

15 MS. DONAHUE: One last question from me.

16 MR. MORIARTY: I'm not done.

17 MS. DONAHUE: Sorry.

18 BY MR. MORIARTY:

19 Q. If you do develop new opinions would you please  
20 let Mr. Ernst know so under the rules of the court he  
21 can let me know?

22 A. Yes, I will.

23 Q. All right. I will be asked at some point, I  
24 assume, to send you payment for the time we spent here  
25 today; correct?

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1 A. Correct.

2 Q. And you know that I will need probably a W-9;  
3 correct?

4 A. Yeah, okay.

5 Q. And I'll need to know to whom to make out the  
6 check; okay? And would that be you as an individual, or  
7 the coroner's office, or do you have a like a  
8 corporation?

9 A. Yeah, it's Richard T. Mason, MD, Inc.

10 Q. All right.

11 A. And I will need your business card to know  
12 where to send it.

13 Q. You will get that.

14 MR. ERNST: Do you have that card?

15 MR. MORIARTY: I might give it to him several  
16 months from now. Yeah, I'll give it to you.

17 Q. And what percent of your time is spent in  
18 private consulting work such as this case, now, as  
19 opposed to your official capacity as the coroner?

20 A. Less than 10 percent.

21 Q. Okay. Is there -- when you do change or amend  
22 a report, as Ms. Donahue was asking you about, is there  
23 any procedure that you have to go through within the  
24 system of the coroner's office?

25 A. Yeah. I have to let the sergeant, who is the

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1 section chief, know about it and then I have to execute  
2 those forms and it has to be entered into this new  
3 computerized system. And that's been done. It was done  
4 yesterday.

5 Q. All right.

6 A. Better late than never.

7 Q. Okay. Is there anything else about that  
8 process?

9 A. No.

10 MR. MORIARTY: Okay. All right. I don't have  
11 any other questions.

12 You are familiar with the reading and signing  
13 process?

14 THE WITNESS: Yeah.

15 MR. MORIARTY: She will send you a transcript.

16 THE WITNESS: Sure.

17 MR. MORIARTY: You need to check it for  
18 accuracy.

19 THE WITNESS: Okay, I can do that.

20 MR. MORIARTY: Okay?

21 Now I'm going to have the court reporter take  
22 all these and instead of pulling this apart and trying  
23 to find a copy machine today, she will make this flagged  
24 page Exhibit 8; okay?

25 MR. ERNST: Yes.



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1 MR. MORIARTY: And then you have --

2 There are no originals in here that you need  
3 back; correct?

4 THE WITNESS: No, those are all copies.

5 MR. MORIARTY: Then we don't have to worry --

6 THE WITNESS: Those copies or some copies I  
7 would like to get back.

8 MR. MORIARTY: Okay. You can have a set of  
9 exhibits when you get your transcript, keep them.

10 THE WITNESS: That's a good idea.

11 MR. ERNST: Can I request when the court  
12 reporter makes a copy she adds additional copies of  
13 exhibits for the doctor's file so that they will be  
14 complete as he presented them here today.

15 MR. MORIARTY: Okay. We can do that.

16 MS. DONAHUE: Okay. I get to ask my question?  
17 A couple.

18 MR. ERNST: I thought you were done.

19 MS. DONAHUE: A couple more.

20 FURTHER EXAMINATION BY MS. DONAHUE

21 Q. This may be -- I'm not a forensic specialist,  
22 so this may be a naive question. I'm curious, why was  
23 an autopsy performed on Mr. McCornack?

24 A. Well, you know, I think an autopsy was done  
25 because the clinical physicians taking care of his

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1 care -- first off, he is an out-of-town patient, so the  
2 requirement for a civilian physician to sign the death  
3 certificate, he has to have a California medical  
4 license, so if his doctor was in San Luis Obispo he  
5 could very well have signed if he was willing to do so.

6 As I alluded to before, you get a lot of  
7 reluctance on the part of the clinical physicians to  
8 sign death certificates, you know, if they haven't seen  
9 the patient within a very short period of time or the  
10 patient is out of town somewhere or they have the  
11 feeling that they are not in control of the situation.

12 So the case would be referred to us then.

13 Q. So between the time that Mr. McCornack's body  
14 was picked up by the sheriff and brought to your  
15 facility, between that time and the time that you  
16 performed the autopsy, someone, either one of his  
17 physicians or perhaps his wife, someone requested that  
18 an autopsy be performed?

19 A. No, no, no.

20 Q. No?

21 A. No. It's done without permission. Under the  
22 code, Government Code, Health and Safety Code, State of  
23 California, I have a right to autopsy people without the  
24 permission of the family. Some jurisdictions are more  
25 casual. I always have in mind that I'm going to be

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1 sitting in the witness chair at some point in time and  
2 somebody is going to say well, you didn't do something  
3 or you didn't take adequate care to make a  
4 determination. So we -- we are pretty cautious and we  
5 have about -- in our county about an 80 percent autopsy  
6 rate.

7           You know, it was just the circumstances, he is  
8 at a campground with his family, you know, perhaps they  
9 were drinking or, you know, perhaps he was using some  
10 other kind of medication or recreational drugs or  
11 whatever. So the autopsy sort of rules out all these  
12 things.

13           Or somebody with hypertension might have a  
14 sudden intercranial hemorrhage or a stroke, something of  
15 that nature.

16           Q. I'm glad you clarified that for me.

17           So based on the circumstances of his death, as  
18 reported to you by the sheriff, you made the  
19 determination that an autopsy should be performed in  
20 this case?

21           A. Yes. That this is my, you know, my influence  
22 in the procedure. They usually leave it up to me as to  
23 whether do we really need an autopsy here or not. And  
24 as I said, we probably do a higher percentage than maybe  
25 some other jurisdictions.

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1 Q. Okay. All right. Thank you. And one last  
2 question.

3 I think Exhibit 14 is the March 7 letter from  
4 Mr. Ernst retaining you as an expert.

5 A. Yes.

6 Q. And again same -- similar question as I asked  
7 before, had you made a decision to change the cause of  
8 death, your cause of death opinion in regard to Mr.  
9 McCornack before Mr. Ernst retained you as an expert?

10 A. Yes.

11 Q. So you know you had made that decision before  
12 he retained you, but you don't know at what point  
13 before?

14 A. No.

15 Q. You can't even give me an estimate?

16 A. You know, at whatever point I became aware --  
17 the cases have to go through at a fairly rapid rate.  
18 And, you know, there is always new ones coming down the  
19 chute, and at some time I became aware of the NMS report  
20 and at that point I made the decision.

21 Q. Last question, even though it's not mine.

22 MR. MORIARTY: It would have made it easier if  
23 I asked him. I thought you would get mad at me and, you  
24 know, I don't want that. I have to spend a lot of time  
25 with you.

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1 BY MS. DONAHUE:

2 Q. Can you tell if someone has had a true  
3 myocardial infraction [sic] without a microscopic  
4 examination of the heart?

5 MR. MORIARTY: Infarction.

6 BY MS. DONAHUE:

7 Q. Infarction.

8 A. Infarction.

9 Even if they don't survive a period of at least  
10 24 hours, changes are quite difficult to interpret.  
11 Normally you look for an influx of white blood cells  
12 into an area essentially of dead tissue. That's what an  
13 infarction is. You have interrupted the blood supply  
14 and muscular tissue has died, essentially, and it's  
15 going to have to be broken down by the white cells of  
16 the body and taken away and replaced by fibrous tissue.

17 In the early stages, under 24 hours, all you  
18 see is some very, very subtle changes in the myocardium,  
19 and it can be very difficult to interpret. You may not  
20 be able to interpret it.

21 A lot of the cases, because of that, get signed  
22 out as arrhythmias, probable arrhythmias. And again, I  
23 can't see arrhythmias with my dissecting knife, but I  
24 see other changes, and you know, I'm assuming that there  
25 has been an arrhythmia and consequent cardiac arrest.

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1                   FURTHER EXAMINATION BY MR. MORIARTY

2           Q.   If I understand everything you just said, true  
3 MI was a possibility here.

4           MR. ERNST:  Objection.

5 BY MR. MORIARTY:

6           Q.   Right?

7           A.   It's a possibility, yes.

8           MR. MORIARTY:  That's it.  I promise that's it.

9           (Time Noted:  4:22 p.m.)

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1 I hereby certify that I have read my  
2 deposition, made those changes and corrections I  
3 deem necessary, and approve the same as now  
4 written.

5 Dated this \_\_\_\_\_ day of \_\_\_\_\_,  
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Under Penalty of Perjury

Richard T. Mason, MD

REPORTER'S CERTIFICATE

The undersigned Certified Shorthand Reporter  
licensed in the State of California does hereby certify:

I am authorized to administer oaths or  
affirmations pursuant to Code of Civil Procedure,  
Section 2093(b), and prior to being examined, the  
witness was duly administered an oath by me.

I am not a relative or employee or attorney or  
counsel of any of the parties, nor am I a relative or  
employee of such attorney or counsel, nor am I  
financially interested in the outcome of this action.

I am the deposition officer who  
stenographically recorded the testimony in the foregoing  
deposition, and the foregoing transcript is a true  
record of the testimony given by the witness.

Before completion of the deposition, review of  
the transcript [x] was [ ] was not requested. If  
requested, any changes made by the deponent (and  
provided to the reporter) during the period allowed are  
appended hereto.

In witness whereof, I have subscribed my name  
this 6th day of October, 2009.

\_\_\_\_\_  
Allison Ash-Hoyman, CSR No. 7412